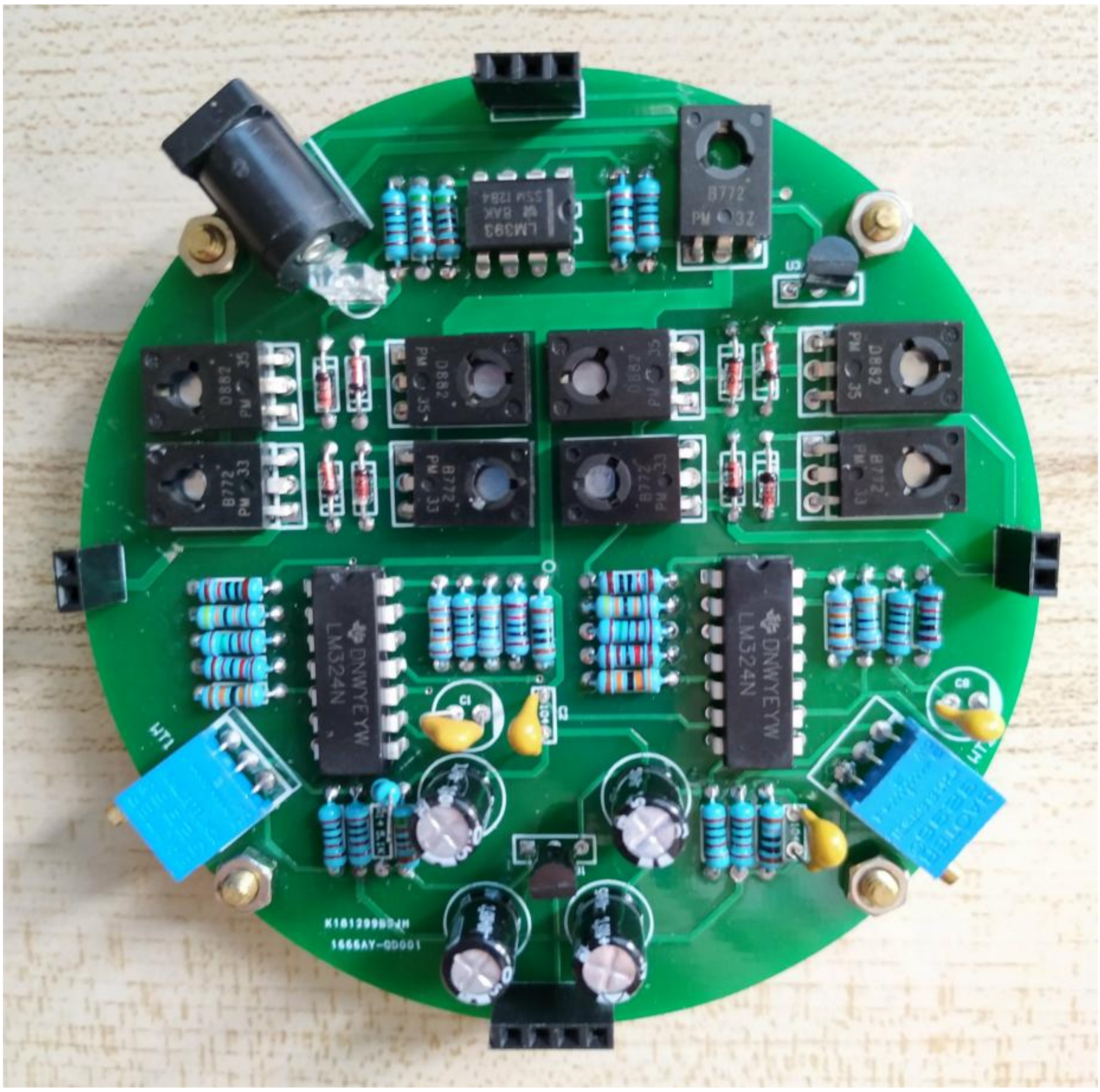
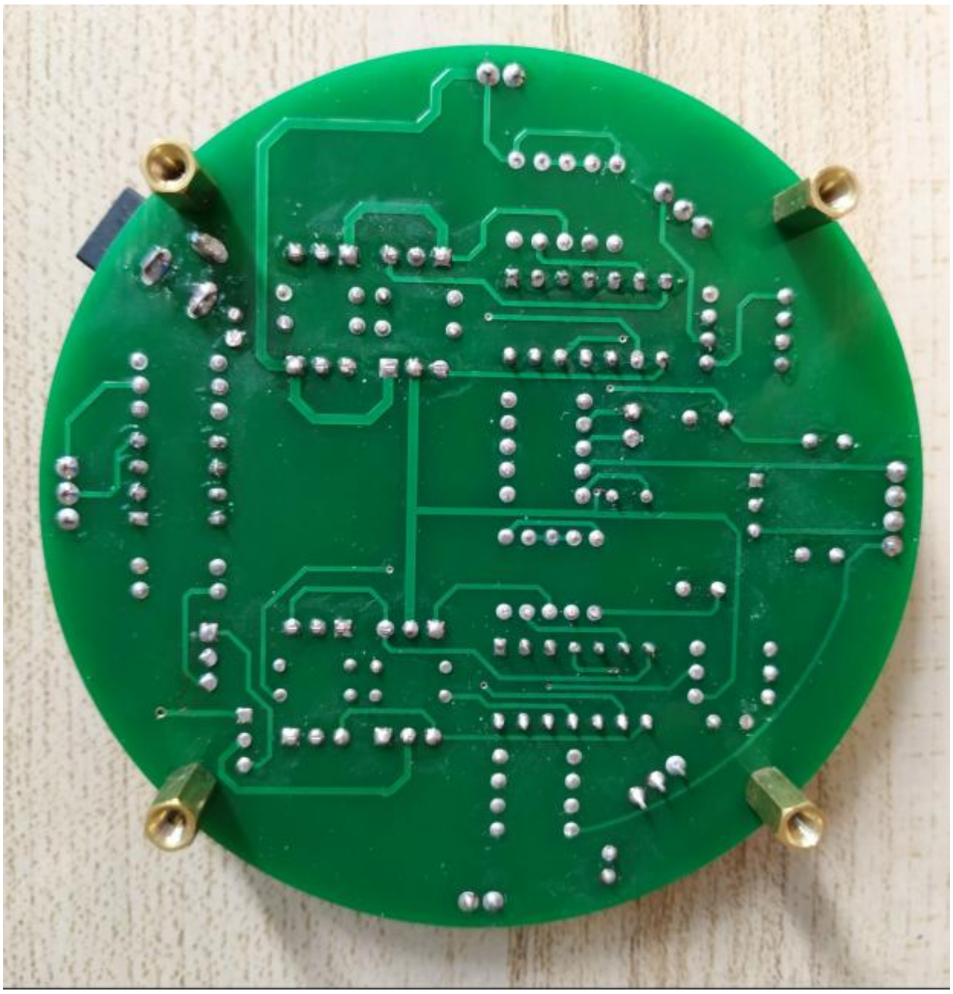
Push down maglev assembly course

1: Installation of electronic components

Place corresponding components according to the screen printing on the circuit board, especially pay attention to the direction of components, such as diodes and electrolytic capacitors



When welding, pay attention not to false welding or solder welding

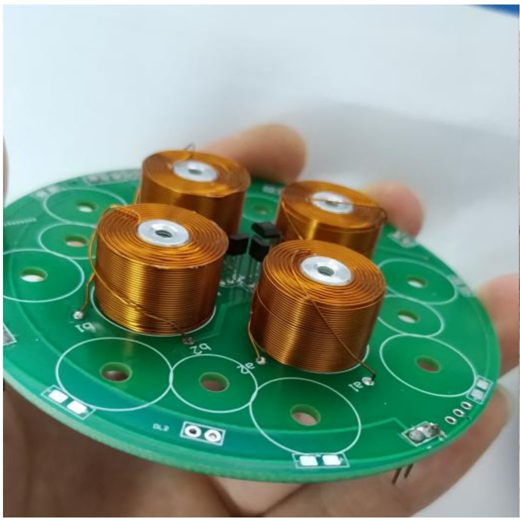
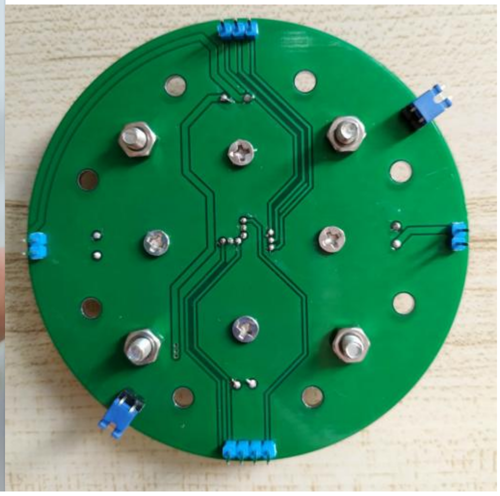


2: Install the coil plate

When installing, pay attention to the direction and height of the hall sensor. The height is generally in the middle of the coil, which should not exceed the coil height, and should not be too low. H3 needs to be bent 90 degrees.

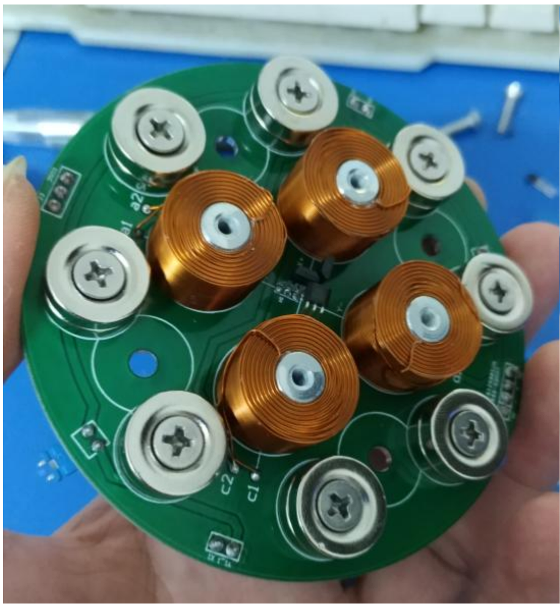
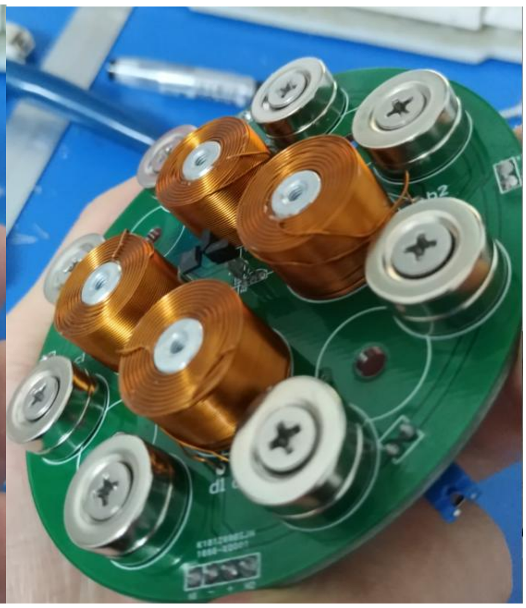
Then weld the coil wire. Pay attention that the coil wire is enameled wire, and the outside is insulated. So when welding, the silvery white part of the wire head should be welded. If the wire is accidentally broken, the paint on the outside of the wire needs to be scraped off with a blade before welding.

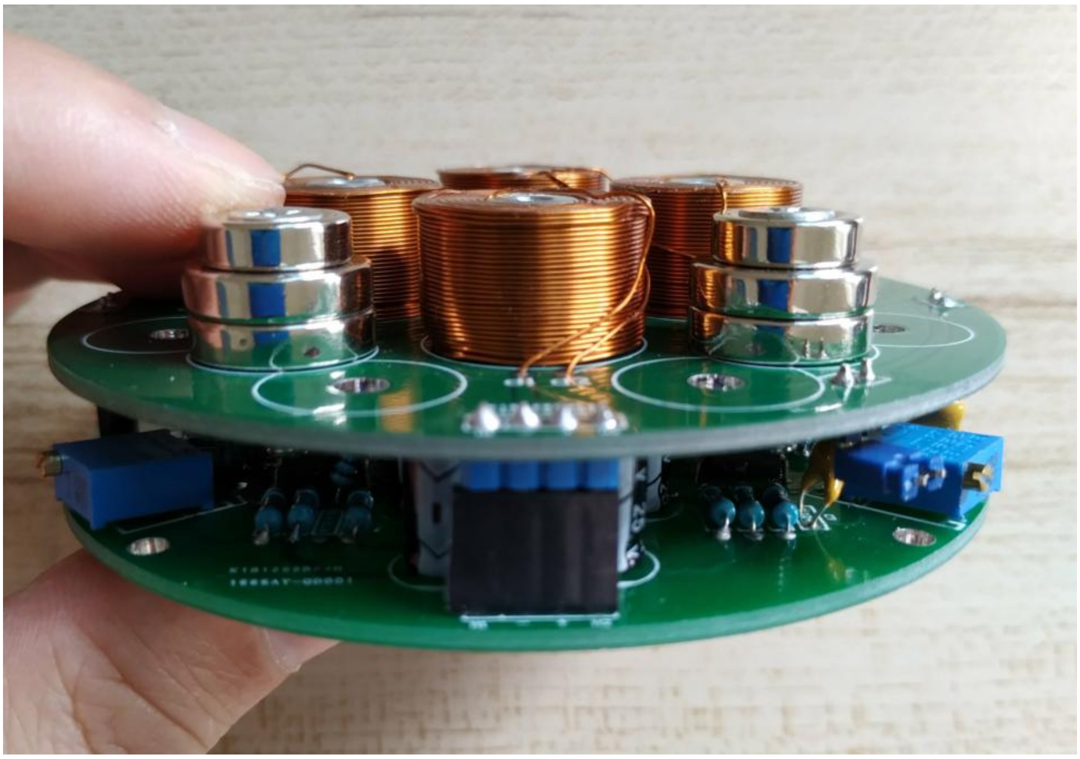
The wires out of the middle of the four coils are connected to A1 B1 C1 D1 respectively, and the remaining four wires are connected to A2 B2 C2 D2 respectively

Install the magnet after it is installed, because the novice can't debug it at the beginning, so let's put two layers of magnets first. The three layers of magnets are too strong to debug. After you master how to debug, install three layers of magnets.

Install the second floor as shown in the figure below.



300 grams is actually put 8 groups of magnets, I use this to demonstrate how to install.

The last step is the most critical debugging.

We can connect the ampere meter, mechanical and digital multimeter. We must plug in the electric discharge float, that is to say, one hand holds the float in the middle and the off-line height is about 1.5CM, then the blue point locator is used to make the ammeter 0. If the current of the potentiometer doesn't change, it's abnormal. If the current is not adjusted to 0, the triode will heat up and affect the suspension. Therefore, the triode will be hot during debugging. It's necessary to cool down before debugging. Remember to debug well. Don't move the position of the sensor and magnet to avoid the change of the magnetic

field.

